



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

**MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION**

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[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

## NOTICE OF ACCEPTANCE (NOA)

EcoStar, LLC  
42 Edgewood Drive  
Holland, NY. 14080

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Empire Slate

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 9.

The submitted documentation was reviewed by Alex Tigera.



**NOA No. 12-1127.04**  
**Expiration Date: 11/07/18**  
**Approval Date: 11/07/13**  
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## ROOFING ASSEMBLY APPROVAL

**Category:** Roofing  
**Sub-Category:** Slate  
**Materials** Composite  
**Deck Type:** Wood  
**Maximum Design Pressure** -165 psf

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specifications</u></b>	<b><u>Product Description</u></b>
Empire State – 12” Traditional	Length = 18” Width = 12” Thickness = 1/4”	TAS 110	Slate looking composite shingle
Empire State – 10” Traditional	Length = 18” Width = 10” Thickness = 1/4”	TAS 110	Slate looking composite shingle

### MANUFACTURING LOCATION:

1. Holland, NY

### EVIDENCE SUBMITTED:

<b><u>Test Agency</u></b>	<b><u>Test Identifier</u></b>	<b><u>Test Name/Report</u></b>	<b><u>Date</u></b>
Architectural Testing Incorporated	B2511.05-109-18	TAS 100	10/04/11
	C0706.01-109-18	TAS 135	10/31/12
	C0706.01-109-18	ASTM D 635	10/31/12
	C0706.01-109-18	ASTM D 1929	10/31/12
	C0706.01-109-18	ASTM D2843	10/31/12
	C0706.01-109-18	TAS 125	10/31/12
Underwriters Laboratories Inc.	11NK11975	UL 790	11/30/11



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## APPROVED ASSEMBLIES:

<b>System A:</b>	Empire State – 12” Traditional and Empire State – 10” Traditional
<b>Deck Type:</b>	Wood, Non-Insulated
<b>Deck Description</b>	New Construction $1\frac{9}{32}$ ” or greater plywood or wood plank only.
<b>Slope Range:</b>	2”: 12” or greater
<b>Maximum Uplift Pressure:</b>	See Table A below

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**Deck Attachment: (Field Condition)** In accordance with applicable Building Code, but in no case shall the sheathing be installed with less than #8d ring shank nails spaced 6” around the board perimeter and 6” o.c. in the board field.

**Deck Attachment: (Perimeter and Corner Condition)** Install cross members in between the trusses in the locations where plywood edges land. Secure the cross members using two #8 x 3” long Phillips flat head screws. Secure the sheathing with #8d ring shank nails spaced 4” o.c. around the board perimeter and 6” o.c. in the board field.

In reroofing, where the deck is less than  $1\frac{9}{32}$ ” thick (Minimum  $1\frac{5}{32}$ ”) The above attachment method must be in addition to existing attachment.

**Underlayment:** Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4” side-laps and 6” end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and  $1\frac{1}{4}$ ” annular ring-shank nails, spaced 6” o.c. at all laps and two staggered rows 12” o.c. in the field of the roll. Or, any Miami-Dade County Product Control Approved underlayment having a current NOA.

Install a layer of EcoStar Glacier Guard self adhered underlayment on roof perimeter and valleys (see valleys below) over the mechanically fastened underlayment.

**Fire Barrier:** Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.

**Valleys:** Valley metal shall be a minimum 16” wide 26 gage G-90 galvanized steel. Valley metal shall be set over a minimum 36” wide sweat sheet of approved self-adhered membrane. Valley metal shall be secured with roofing nails spaced a maximum 12” o.c. at the outer most part of metal on each side. Install “T” shaped flashing on each side secured with 1- $\frac{1}{2}$ ” long x 0.12” diameter ring shank nails, spaced 6” o.c.

When additional protection for the valley metal edges is required the edges shall be stripped-in with an “ice & water shield” type product. Valley details shall be completed in accordance with the current published manufacturer’s literature.

**Ridge & Hips:**

See EcoStar LLC's published installation manual for detail.

**Starter:**

Install a starter row of slates along the eave edge with a  $\frac{3}{4}$ " overhang using the number of fasteners listed below in **Table A**. The space between the slates shall be a minimum  $\frac{3}{8}$ ". The final slate in the starter row may have to be cut to fit.

Begin installing the first row of slate by completely covering the starter row with the first row of slate. Offset the slate by half a shingle width from the starter row.

**General Application:**

EcoStar Empire Slate shall be installed in accordance with EcoStar's current published installation specifications using a maximum 7" exposure for the Slate products. EcoStar Empire Slate shall be fastened with the number of fasteners listed below in **Table A**.

Do not butt the slates tight together. Maintain a  $\frac{3}{8}$ " gap between adjacent slates by aligning each successive row of slates with the vertical guidelines molded into the slates. Each row of slates must be offset by half a shingle width from the row below to cover the nails previously installed.

Continue installing rows of slate up the slope until the roof deck is covered. The shingles can be cut as needed by scoring with a utility knife and snapping by hand. Install pre-formed ridge shingles to all hips and ridges.

**TABLE A**  
**MAXIMUM DESIGN PRESSURES**

Roof Areas	Field	Perimeter and Corner <sup>1</sup>
Maximum Design Pressures	-120 psf	-165 psf
Amount of Fasteners <sup>B.</sup>	2 <sup>C</sup>	4 <sup>D</sup>
Maximum Plywood Nail Spacing	6" o.c.	4" o.c. <sup>E</sup>

1. Extrapolation shall not be allowed

- A. Extrapolation shall not be allowed
- B. Use 1-1/2" long, corrosion resistant ring shank roofing nails (stainless steel is recommended) at the nail locations molded into the slates (see Detail A).
- C. Place fasteners at the nail locations molded into the slates (see Detail A).
- D. Place fasteners on both sides of the nail locations molded into the slate.
- E. Fasteners are 4" o.c. in the perimeter of the plywood, and 6" o.c. in the field of the plywood See Deck Attachment (Perimeter and Corner Condition) above.

<b>System B:</b>	Empire State – 12” Traditional and Empire State – 10” Traditional
<b>Deck Type:</b>	Wood, Non-Insulated
<b>Deck Description</b>	New Construction <sup>19</sup> / <sub>32</sub> ” or greater plywood or wood plank, or Reroofing minimum <sup>15</sup> / <sub>32</sub> ” plywood.
<b>Slope Range:</b>	2”: 12" or greater
<b>Maximum Uplift Pressure:</b>	See Table B below

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<b>Deck Attachment:</b>	<p>In accordance with applicable Building Code, but in no case shall the sheathing be installed with #8d ring shank nails spaced 6” around the board perimeter and 6” o.c. in the board field.</p> <p>In reroofing, where the deck is less than <sup>19</sup>/<sub>32</sub>” thick (Minimum <sup>15</sup>/<sub>32</sub>”) The above attachment method must be in addition to existing attachment.</p>
<b>Underlayment:</b>	<p>Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4” side-laps and 6” end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 1¼” annular ring-shank nails, spaced 6” o.c. at all laps and two staggered rows 12” o.c. in the field of the roll. Or, any Miami-Dade County Product Control Approved underlayment having a current NOA.</p> <p>Install a layer of a EcoStar Glacier Guard self adhered underlayment on roof perimeter and valleys (see valleys below) over the mechanically fastened underlayment.</p>
<b>Fire Barrier:</b>	Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.
<b>Valleys:</b>	<p>Valley metal shall be a minimum 16" wide 26 gage G-90 galvanized steel. Valley metal shall be set over a minimum 36” wide sweat sheet of approved self-adhered membrane. Valley metal shall be secured with roofing nails spaced a maximum 12" o.c. at the outer most part of metal on each side. Install “T” shaped flashing on each side secured with 1-1/2” long x 0.12” diameter ring shank nails, spaced 6” o.c.</p> <p>When additional protection for the valley metal edges is required the edges shall be stripped-in with an “ice &amp; water shield” type product. Valley details shall be completed in accordance with the current published manufacturer’s literature.</p>

**Ridge & Hips:**

See EcoStar LLC's published installation manual for detail.

**Starter:**

Install a starter row of slates along the eave edge with a  $\frac{3}{4}$ " overhang using the number of fasteners listed below in **Table B**. The space between the slates shall be a minimum  $\frac{3}{8}$ ". The final slate in the starter row may have to be cut to fit.

Begin installing the first row of slate by completely covering the starter row with the first row of slate. Offset the slate by half a shingle width from the starter row.

**General Application:**

EcoStar Empire Slate shall be installed in accordance with EcoStar's current published installation specifications using a maximum 7" exposure for the Slate products. EcoStar Empire Slate shall be fastened with the number of fasteners listed below in **Table B**.

Do not butt the slates tight together. Maintain a  $\frac{3}{8}$ " gap between adjacent slates by aligning each successive row of slates with the vertical guidelines molded into the slates. Each row of slates must be offset by half a shingle width from the row below to cover the nails previously installed.

Continue installing rows of slate up the slope until the roof deck is covered. The shingles can be cut as needed by scoring with a utility knife and snapping by hand. Install pre-formed ridge shingles to all hips and ridges.

**TABLE B**  
**MAXIMUM DESIGN PRESSURES**

Roof Areas	Field	Perimeter and Corner <sup>2</sup>
Maximum Design Pressures	-93.75 psf	-127.5 psf
Amount of Fasteners <sup>G.</sup>	2 <sup>H</sup>	4 <sup>I</sup>
2. Extrapolation shall not be allowed		

**F. Extrapolation shall not be allowed**

**G. Use 1-1/2" long, corrosion resistant ring shank roofing nails (stainless steel is recommended) at the nail locations molded into the slates (see Detail A).**

**H. Place fasteners at the nail locations molded into the slates (see Detail A).**

**I. Place fasteners on both sides of the nail locations molded into the slate. (See Detail B).**

## GENERAL LIMITATIONS:

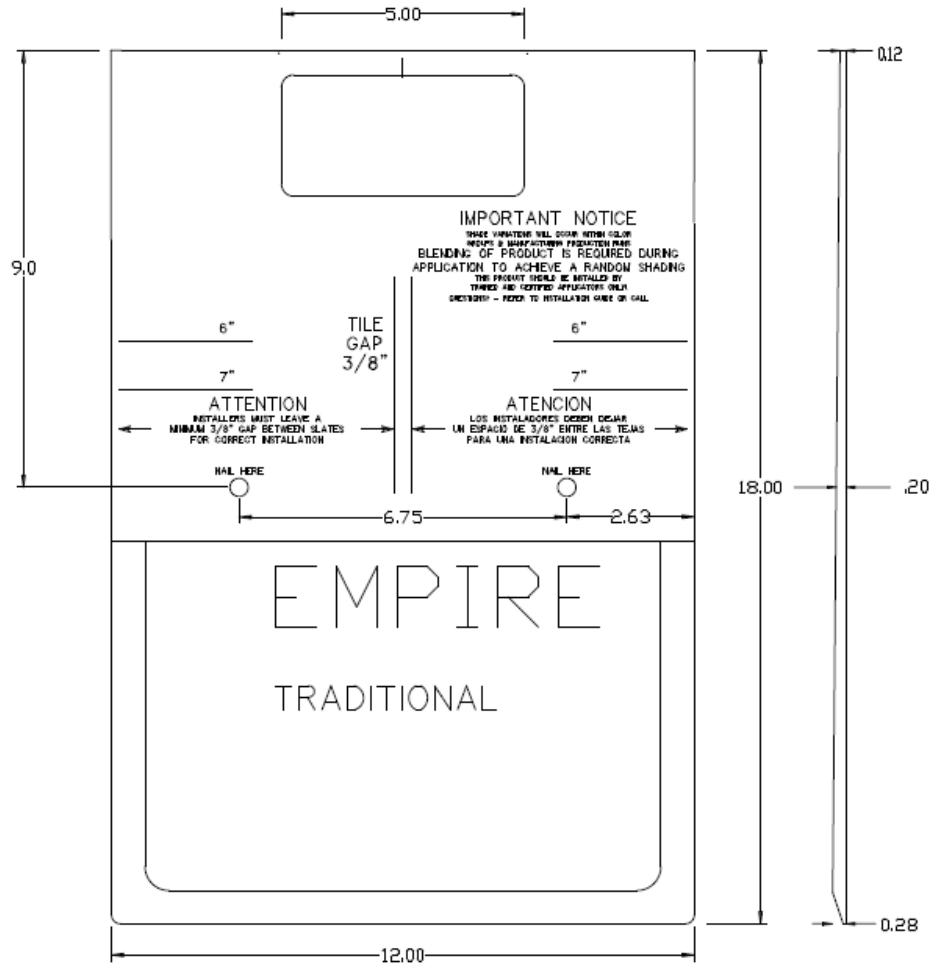
1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
3. All slates shall be permanently labeled with the manufacturer's name and/or logo, and the following statement: "Miami-Dade County Product Control Approved" **or** with the Miami-Dade County Product Control Seal as seen below.



4. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.



**DRAWINGS**  
**DETAIL A**  
**SLATE PRODUCTS**



**EMPIRE SLATE 12" TRADITIONAL**

